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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/943,128      | 08/29/2001  | Yoshikazu Takashima  | 450100-03430        | 9308             |

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NEW YORK, NY 10151

EXAMINER

JONES, HEATHER RAE

ART UNIT PAPER NUMBER

2616

DATE MAILED: 03/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

|                              |                               |                                  |  |
|------------------------------|-------------------------------|----------------------------------|--|
| <b>Office Action Summary</b> | Application No.<br>09/943,128 | Applicant(s)<br>TAKASHIMA ET AL. |  |
|                              | Examiner<br>Heather R. Jones  | Art Unit<br>2616                 |  |

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 29 August 2001.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 29 August 2001 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |                                                                                                                        |                                                                                         |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                            | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____                                                |

## **DETAILED ACTION**

### ***Specification***

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1, 3, 7, and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Suzuki et al. (U.S. Patent 5,699,474).

Regarding claim 1, Suzuki et al. discloses a transmitting apparatus for converting a coded bit stream into a trick play output and sending it to a transmission path, comprising: accumulating means for accumulating the coded bit stream including an intra-frame coded picture, a forward predictive-coded picture, and a bidirectionally predictive-coded picture (401); output control means for controlling so as to output the coded bit stream in an output mode corresponding to a designated trick play operation (406); rewriting means for rewriting control data which specifies a displaying order of the pictures with respect to the coded bit stream (86) (col. 14, lines 15-20); picture forming means for forming a picture obtained by copying a predetermined picture (col. 12, lines

49-65); output means for outputting a picture whose control data has been rewritten and the formed picture in accordance with the control of the output means (col. 12, lines 49-65).

Regarding claim 3, Suzuki et al. discloses all the limitations as previously discussed with respect to claim 1 as well as disclosing as for the picture which is outputted, the rewriting means makes data indicative of an accumulation amount of a virtual input buffer of a decoder in a picture header invalid (col. 14, lines 21-36).

Regarding claim 7, Suzuki et al. discloses a transmission system of image information, comprising: accumulating means for accumulating a coded bit stream including an intra-frame coded picture, a forward predictive-coded picture, and a bidirectionally predictive-coded picture (401); output control means for controlling so as to output the coded bit stream in an output mode corresponding to a designated trick play operation (406); rewriting means for rewriting control data which specifies a displaying order of the pictures with respect to the coded bit stream (86) (col. 14, lines 15-20); picture forming means for forming a picture obtained by copying a predetermined picture (col. 12, lines 49-65); output means for outputting a picture whose control data has been rewritten and the formed picture as trick play output data in accordance with the control of the output means (col. 12, lines 49-65); a digital interface connected to the output means (col. 10, lines 29-34); and an apparatus for recording or displaying the trick play output data received through the digital interface (604) (col. 10, lines 35-42).

Regarding claim 8, this is a method claim corresponding to the apparatus claim 1. Therefore, claim 8 is analyzed and rejected as previously discussed with respect to claim 1.

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 2 and 4-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki et al. as applied to claim 1 above, and further in view of Eerenberg et al. (U.S. Patent 6,621,979).

Regarding claim 2, Suzuki et al. discloses all the limitations as previously discussed with respect to claim 1, but fails to disclose that the predetermined picture is the intra-frame coded picture or the forward predictive-coded picture, the copied picture is outputted as a skip P picture having a structure such that macroblocks other than macroblocks at both ends of a slice is skipped.

Referring to the Eerenberg et al. reference, Eerenberg et al. discloses a transmitting apparatus wherein the predetermined picture is the intra-frame coded picture or the forward predictive-coded picture, the copied picture is outputted as a skip P picture having a structure such that macroblocks other than macroblocks at both ends of a slice is skipped (col. 24, lines 56-67).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have idea that the copied picture is outputted as a skip P picture having a structure such that macroblocks other than macroblocks at both ends of a slice is skipped as disclosed by Eerenberg et al. with the transmitting apparatus disclosed by Suzuki et al. in order to obtain a sufficient refresh rate during trick play.

Regarding claim 4, Suzuki et al. in view of Eerenberg et al. discloses all the limitations as previously discussed with respect to claim 1 as well as Eerenberg et al. discloses that the coded bit stream by the trick play operation is outputted by repeating processes for outputting the intra-frame coded picture and, thereafter, outputting a plurality of copies pictures (col. 24, lines 56-67).

Regarding claim 5, Suzuki et al. in view of Eerenberg et al. discloses all the limitations as previously discussed with respect to claim 1 including that by repeating processes such that after the intra-frame coded picture and the forward predictive-coded picture which repetitively appear at intervals (m), the copied pictures of the number of larger than the (m) are outputted, the coded bit stream by a slow operation is outputted (col. 2, lines 1-29).

Regarding claim 6, Suzuki et al. in view of Eerenberg et al. discloses all the limitations as previously discussed with respect to claim 1 including that the coded bit stream by a slow operation is formed so that the copied pictures are displayed subsequently to each of all pictures in the coded bit stream (col. 2, lines 1-29).

**Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Heather R. Jones whose telephone number is 571-272-7368. The examiner can normally be reached on Mon. - Thurs.: 7:00 am - 4:30 pm, and every other Fri.: 7:00 am - 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on 571-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Heather R Jones  
Examiner  
Art Unit 2616

HRJ  
March 6, 2006

MEHRDAD DASTOURI  
SUPERVISORY PATENT EXAMINER  
TC 2600

*Mehrdad Dastouri*